Identifying the Dissimilarities based on Working of Programs among versions in DVCS (Distributed Version Control Systems)

Abstract
In this paper, one of the most important phases of Software development that is versioning, which is done through version control systems, is being presented. The current methodologies used in distributed version management, some aspects needed in the working of Version Control Systems, the prior work that is done in this field of technology are discussed. A proposed algorithmic approach for knowing the dependency of linkages of classes, interfaces and methods in object-oriented technology amid versions of a program is also presented. The aim of this approach is to decrease errors and inaccuracies during the phase of software development in distributed version control systems.

References

- Ian Clatworthy, Distributed version control systems why and how, Canonical.
- Prof.Stafford, Department of computer Science, Tufts University, Software Maintenance as part of the software lifecycle, software Engineering.
- Takafulmi ODA†*, Nonmember and Motoshi SAEKI†a), Member, 2006,Meta Modeling based version control system for software diagrams, IEICE TRANS. INF. & SYST.
- Hung-Fu Chang, Audris Mockus, University of Southern California. University Park Campus, Avaya Labs Research, Constructing Universal version History.
- James J Hunt, Kiem-Phong Vo and Walter F Tichy, University of Karlsruhe, Germany, An empirical study of delta algorithms.
- Ben Collins-Sussman, Brian W. Fitzpatrick, C. Michael Pilato, Version Control with Subversion
- Alexander Tarvo, Brown University, Thomas Zimmerman, Jacek Czerwonka, An integration resolution algorithm for Mining multiple branches in version control systems.
- Taweesup Apiwattanapong, Alessandro Orso, Mary Jean Harold differencing technique and tool for object oriented programs.
- David L. Atkins, Thomas Ball, Todd L. Graves_ and Audris Mockus, Using Version Control Data to Evaluate the Impact of Software Tools: A Case Study of the Version Editor
- Carlos Garcia Campos IT, A distributed version controls System.
- Alexander Yip, Benjie Chen and Robert Morris, MIT Computer Science and AI Laboratory, Past Watch a distributed version control system.
- Ted Naleid, Distributed version control system with mercurial.
- Version control systems, Wikipedia.
- Pressman, Software engineering, A practitioners approach.
- Distribution control by Joel spolsky.

Index Terms

Computer Science          Software Systems
Keywords

- Tracking repository changes
- Differences based on working aspects of programs